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METHOD AND SYSTEM FOR ASSIGNING OBSERVATIONS

ABSTRACT OF THE DISCLOSURE

      According to one embodiment of the invention, a
computerized method for assigning observations includes
receiving a plurality of first observations indicative of

5   respective physical parameters observed by a first sensor
system and receiving a plurality of second observations
indicative of respective physical parameters observed by
a second sensor system. The method also includes
assigning, by a computer, a set of pairs of the first and

10   second observations predicted to correspond to the same
physical parameter. The assigning includes receiving a
cost function that specifies a cost for each assigned
pair. The cost is not independent of the assignment of
any other assigned pairs in the set of assigned pairs.

15   The assigning also includes determining the set of
assigned pairs corresponding to an optimal value for the
cost function by calculating, by the computer, a
corresponding optimal value for a directed graph
representative of possible assignments of first and

20   second observations.